DE MANALENCE COLLEGE, KANDANA

GENERAL INFORMATION TECHNOLOGY (GIT)

02nd Term Test 2019

Grade 13

Time: 02 Hours

Grade - 12

Answer all the questions on this paper itself.

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Vame:	Class:	Class No:

QUESTION # 1 (2 x 10 = 20 Marks)

Fill in the blanks of the following table.

	Question	Answer
1	What is the range of the values in the Hexadecimal Number System?	Tisaria
2	Find the binary equivalent of the decimal value 2184.	
3	Find the decimal equivalent of the binary value 11000011010011111 ₂ .	
4	Kamala, Anula and Manjula are sisters in one family. Their ages are 1001110 ₂ , 1001100 ₂ and 1001001 ₂ respectively. Who is the eldest sister in this family? What is her age in decimal number system?	
5	If, $10111001100011000_2 + X_{10} = 11000011010100000_2$ Find the value of X.	
6	What is the base value of the Octal Number System?	T=X+BC+B.O
7	Suranga has written a word using binary code of 7-bit ASCII system as given below. 1010000 1000101 1010100 Hint: 7-bit ASCII value of the letter "Z" is 1011010 in binary. What is the word written by Suranga?	
8	Find the number of bits in one Yottabyte as a power of two.	
9	How many different characters are there in the Unicode Coding System?	
10	The capacity of Thushara's external hard disk is 2 ²³ MB. If, 2 ²³ MB = X TB. Find the value of X.	A FIGURE the bisuas of the folio



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QUESTION # 2 (20 Marks)

Fill in the blanks of the following table.

Question	Answer
What are the three basic logic operations in Boolean Algebra? (1 X 3 = 3 Marks)	
Write the Boolean function of the following logic circuit. (4 Marks)	What is the range of the values in the Nex
A B C	Find the binary equivalent of the decimals
	Find the decimal equivalent of the binacy in
x definition	Kumaia, Anuia end Manjustare sisters in o Their ages are 1001,110, 1001,100, and 101 Who is the eidest sister in this family? What is her age in decimal number system.
	What are the three basic logic operations in Boolean Algebra? Write the Boolean function of the following logic circuit. A B C

3 Design the logic circuit for the following Boolean Function;

(5 Marks)

 $F = \overline{A} + \overline{B}.\overline{C} + B.C$

4 Fill in the blanks of the following truth table. (2 X 4 = 8 Marks)

Х	Υ	NOT(NOT(X AND Y) AND NOT(X OR Y))
0	0	2000 Bullov Brit 9 1
0	1	
1	0	
1	1	

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QUESTION #3 (2 X 5 = 10 Marks)

Fill in the blanks of the following table.

	Question	Answer	De Mazenod College
1	Write down two names of Free and Open Source Electronic Spreadsheet Software.	E	Kantoria
2	The number of columns in Microsoft Excel 2010 is 2 ^x . Find the value of x.	skugo4	25/109620
3	The number of rows in Microsoft Excel 2010 is 2^y . Find the value of y.	TAN FIRM	oximele)
4	What is the default alignment of a text entered in a cell in Microsoft Excel 2010?	Less rus	erisqma0 8 [
5	What is the default alignment of a number entered in a cell in Microsoft Excel 2010?	888.880.8	Z Kendy

QUESTION # 4 (2 X 5 = 10 Marks)

Find the results of the following equations in Microsoft Excel 2010 and fill in the blanks of the table.

	Formula		Result	
1	= 5+2*3^2/6-3	ens	Less sac	La de estaca de
2	= ((2+2^2)^2)^(1/2)	3.28	683,659	i 22 Dadolla
3	=(10^2-8^2)/2^0	848	163,684	desciendi/ ES]
4	= (((500 - 20*5)^2)/100)/0.5			BOSESSES
5	=(10^5-200^2)/1000*5/10^2		Tanana .	antitefunnii tesnii 30

QUESTION # 5 (2 X 5 = 10 Marks)

Study the following worksheet and fill in the blanks of the following table under the 'result' column.

	A	В	С
1	2	6.	4
2	5	3	7
3	5	9	12

	Formula	Result manufacture and manufacture
1	= SUM(A1:A3,C1:C3)	calculate the parcentage increase in the
2	= AVERAGE(A1:C1,B2)	1200
3	=MAX(A1:C2,B3,A3,C3)	Write down the formula necessary for cel 627 to
4	=MIN(A1:A3,B1:B3,C1:C3)	display the population in the least populated
5	=(COUNT(A1:A3,C1:C3) + 4)^2	Function in Excel.

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Answer all the questions on this paper itself.

QUESTION # 6 (10 Marks)

(a) An island-wide census of population in Sri Lanka was conducted in 2011. The last time such a census has been carried out was in 1981. The following is an extract from a table that compares the changes in the population in Sri Lanka between 1981 and 2011.

	A	8	nace the soft 1	ife down givo names	W. E.	
1		Popul	ation in Sri Lanka	CORPORATION SON		
2	Ptintulat	Population	ESTATISTOSESTICATOR (C.)	Population growth in 30 years		
3	District	1981	2011	Number	Percent	
4	Colombo	1,675,847	2,323,826	v to sulay ed ^a bati	* 1 8 T T	
5	Gampaha	1,367,813	2,298,588	glis flucion aft at to		
6	Kalutara	823,964	1,214,880	esed so a cell in Much	ar I	
7	Kandy	1,032,335	1,368,216	igilis Tiurenan eril er ter	911211	
8	Matale	352,860	482,348		and a second	
9	Nuwara Eliya	583,716			Sergera and	
Deliver of the last of the las			TOTAL DESIGNATION DE	released and view by and use	er a ste health	
		The state of the s				
20	Anuradhapura	575,546	855,562			
21	Polonnaruwa	253,411	403,859	6-01/278-124	4 1 4 1	
22	Badulla	620,839	811,225	\$42^2}^{\$12}	N 1 .5 1 1	
23	Monaragala	269,684	448,194	012-8121/210	134 125 134	
24	Ratnapura	779,927	1,082,299			
25	Kegalle	678,456	837,179			
26	Total Population			ELCANT KZZANIVESZAR	4 [2]	
27	Population in the least	populous district				

Source: Department of Census and Statistics, Sri Lanka

 $(2 \times 3 = 6 \text{ Marks})$

	Question	Answer			
1	Write down the formula necessary for cell C26 to calculate the total population in Sri Lanka in 2011		9		
2	using an in-built function in Excel.	ę			
	Write down the formula necessary for cell E5 to			E E STORES	
2	calculate the percentage increase in the population in Gampaha district between 1981 and			ELIA)MUZ =	
2011.				= AVERAGE	
	Write down the formula necessary for cell C27 to		7,63,63,03)	Debajikanie i	8
3	display the population in the least populated district in Sri Lanka in 2011 using an in-built			A:IA)MBA=	
	function in Excel.	4/02			

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Answer all the questions on this paper itself.

(b) Sales values in each shop of a supermarket chain during the first six months of 2018 are given in the following table. $(2 \times 2 = 4 Marks)$

	A	8	C	D	E	F	G	н	1
1	Sales in Rs. millions								
2	Shop	January	February	March	April	May	June	Total sales	Commission (Rs)
3	Badulla	4	4	8	12	9	6	Į-	
4	Colombo	20	25	22	40	32	28	160	
5	Galle	12	14	15	26	22	18	44 montan	91003 1
6	Jaffna	6	8	10	18	14	12	-	
7	Kandy	18	21	23	36	30	25		
8	Trincomalee	8	12	14	31	22	16		

	Question	Answer
1	What is the formula that should be written in cell H3 to calculate the total sales value for the shop at Badulla using an in-built function in Excel?	Task in Milonso's Office Word 2010
	If 5% of total sales for the past six months are	L 2 Liestify alignment of a paragraph.
2	allocate as the commission for the staff in each shop, write down the formula necessary for cell I3 to calculate the sales commission for the staff of	The Change Case Case Case Case Case Case Case Cas
	the shop at Badulla.	5. Changing the Font name (fort lace)

QUESTION #7 (2 X 5 = 10 Marks)

Check whether the following statements are true or false.

	Statement	True / False
1	LyX is a Word Processing Software.	
2	The user can create documents using internet, although the computer does not have Word Processing software.	
3	You do not need to remember complex commands as all commands are displayed in a menu or ribbon in Microsoft Office Word:	
4	The extension of a database created using Microsoft Access 2010 is .accbd	
5	Mail merge facility is not available in Microsoft Office Word 2010.	

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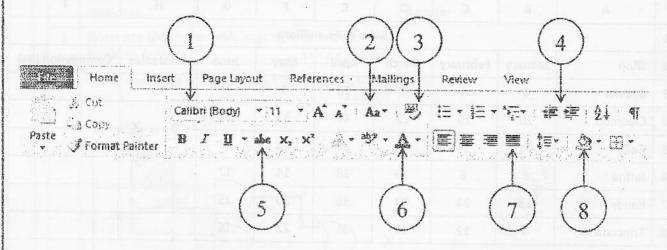
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Time: 02 Hours

Answer all the questions on this paper itself.

QUESTION # 8 (2 X 5 = 10 Marks)

This is the Home Ribbon of Microsoft Office Word 2010.



Find the label (1-8) from the above figure to perform each task of the following table.

	Task in Microsoft Office Word 2010	Label
1	Changing the font colour	Radulla usine anino ultruncition
2	Justify alignment of a paragraph.	es el total sales for lae past six mo
3	Indentation	Re out 10), noy unimovedu as esses
4	Change Case	tot notasimimi usoles aldesateitales
5	Changing the Font name (font face)	sellubed to godze